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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/644,463	08/23/2000	Matthew B. Haycock	884.303US1	2625
21186	7590	06/12/2006	EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402			PHAN, RAYMOND NGAN	
		ART UNIT	PAPER NUMBER	
		2111		

DATE MAILED: 06/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/644,463	HAYCOCK ET AL.	
	Examiner	Art Unit	
	Raymond Phan	2111	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 04 April 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1-13 and 20-27 is/are allowed.
- 6) Claim(s) 14, 15 and 28 is/are rejected.
- 7) Claim(s) 16-19, 29 and 30 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

Part III DETAILED ACTION

Notice to Applicant(s)

1. This action is responsive to the following communications: remarks filed on April 4, 2006.
2. This application has been examined. Claims 1-30 are pending.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (e) the invention was described in--
 - (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
 - (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

4. Claims 14-15, 28 are rejected under 35 U.S.C. § 102(e) as being anticipated by Mooney et al. (US No. 6,452,428).

In regard to claim 14, Mooney et al disclose wherein the data driver (i.e. driver) having an output impedance control circuit (i.e. slew rate control circuit) to modify an output impedance of the data driver (see col. 2, 3, lines 12-54); and the synchronize circuit (i.e. reference circuit) is configured to alert the second simultaneous bi-directional port that the output of the impedance has been modified (see col. 3, lines 12-29).

In regard to claim 15, Mooney et al. disclose the output impedance control circuit is configured to initialize the output impedance of the data driver (see col. 3,

lines 12-54); and the synchronize circuit (i.e. reference circuit) is configured to alert the second simultaneous bi-directional port that the output of the impedance has been initialized (see col. 3, lines 12-29).

In regard to claim 28, Mooney et al. disclose a method of synchronizing an agent to a bi-directional bus comprising de-asserting a ready signal to drive a transmission line having a second agent driver present thereon to signify the agent not ready to communicate on the bi-directional bus (see col. 3, lines 12-54); asserting the ready signal to signify the agent is ready to communicate on the bi-directional bus (see col. 3, lines 12-54); monitoring the transmission line for an indication that both the agent and the second agent are ready to communicate on the bi-directional bus (see col. 3, lines 12-54).

Allowable Subject Matter

5. Claims 1-13, 20-27 are allowable over the prior of records.
6. Claims 16-19, 29-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
7. The following is an Examiner's statement of reasons for the indication of allowable subject matter: Claims 1, 9, 20, 16, 19-20, 24, 29-30, are allowable over the prior art of record because the Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of the said prior arts which teach wherein a receiver in the simultaneous biddirectional port having input hysteresis, the output node including an input node coupled to the output node of the driver and the input hysteresis having a threshold set such that the initial voltage value does not change an output state of the receiver (claim 1); the driver comprise a pullup transistor having an output impedance, and a

pulldown transistor having an output impedance the output impedance of the pullup transistor being greater than the output impedance of the pulldown transistor (claims 9, 19, 29); the receiver includes hysteresis sufficient to allow the receiver to change state only after both the output of the driver and the output node of the second simultaneous bidirectional port circuit are asserted (claims 16, 30); a synchronization circuit to be coupled to the second synchronization circuit on the second integrated circuit, to indicate when the initialization of the simultaneous bidirectional port and an initialization of the second simultaneous bidirectional port is complete (claim 20); wherein output nodes of the first and second data drivers are coupled in common with input nodes of the first and second data receivers, the and the output nodes of the first and second synchronization drivers are coupled in common with input nodes of the first and second synchronization of the receivers (claim 24).

The remaining claims, not specifically mentioned, are allowed for the same rationale as set for their dependency.

Response to Arguments

1. In view of remark filed on April 4, 2006, claims 14-15,28 have been fully considered but they are not deemed to be persuasive.

Applicant(s) argue that ...Mooney et al. fail to teach to the synchronization circuit to alert the second simultaneous bidirectional port.. (pages 2-3). The Examiner does not agree. Mooney et al. teach the each of the communication system 102 and 104 including a driver 110 and a receiver 112 and a reference circuit 114 (i.e. synchronization circuit) (see figure 1, col. 3, lines 14-20). The reference circuit 114 provides a trip point to receiver 112 which allows transmission of data simultaneously in both directions and the trip point of the

receiver dynamically adjusted when outgoing data is provided (see col. 3, lines 21-25).

Conclusion

9. Claims 14-15, 28 are rejected. Claims 16-19, 29-30 are objected. Claims 1-13, 20-27 are allowed.

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Raymond Phan, whose telephone number is (571) 272-3630. The examiner can normally be reached on Monday-Friday from 6:30AM- 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Primary, Paul Myers can be reached on (571) 272-3639 or via e-mail addressed to paul.myers@uspto.gov. The fax phone number for this Group is (571) 273-8300.

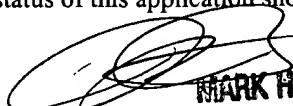
Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [raymond.phan@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 central telephone number is (571) 272-2100.

Raymond Phan
June 8, 2006



MARK H. RINEHART
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100